

INTERNATIONAL SEARCH REPORT

International application No.

PCT/FI 2004/000555

A. CLASSIFICATION OF SUBJECT MATTER

IPC7: B23P 19/04 // F16L 19/08

According to International Patent Classification (IPC) or to both national classification and IPC.

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC7: B23P, F16L, B25B

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

SE,DK,FI,NO classes as above

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

EPO-INTERNAL, WPI DATA, PAJ

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	DE 3202266 A1 (BELL-HERMETIC-ARMATURENWERK GMBH & CO KG), 28 July 1983 (28.07.1983), abstract --	1-5
A	DE 3843450 A1 (FRÖHLICH, M. ET AL), 28 June 1990 (28.06.1990), figures 1,2, abstract --	1-5
A	DE 4431112 C1 (WALTERSCHEID ROHRVERBINDUNGSTECHNIK GMBH), 11 April 1996 (11.04.1996), abstract --	1-5
A	EP 1118434 A2 (LINDNER ARMATUREN GMBH), 25 July 2001 (25.07.2001), abstract --	1-5

☒ Further documents are listed in the continuation of Box C.☒ See patent family annex.

* Special categories of cited documents:

- "A" document defining the general state of the art which is not considered to be of particular relevance
- "E" earlier application or patent but published on or after the international filing date
- "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- "O" document referring to an oral disclosure, use, exhibition or other means
- "P" document published prior to the international filing date but later than the priority date claimed

"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

"X" document of particular relevance: the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

"Y" document of particular relevance: the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art

"&" document member of the same patent family

Date of the actual completion of the international search

13 January 2005

Date of mailing of the international search report

7 -01- 2005

Name and mailing address of the ISA/
Swedish Patent Office
Box 5055, S-102 42 STOCKHOLM
Facsimile No. +46 8 666 02 86

Authorized officer

Katarina Ekman / MRo
Telephone No. +46 8 782 25 00

INTERNATIONAL SEARCH REPORT

International application No.

PCT/FI 2004/000555

C (Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	US 20030173773 A1 (A. UDHOEFER ET AL), 18 Sept 2003 (18.09.2003), abstract -- -----	1-5

INTERNATIONAL SEARCH REPORT

Information on patent family members

27/11/2004

International application No.

PCT/FI 2004/000555

DE	3202266	A1	28/07/1983	NONE		
DE	3843450	A1	28/06/1990	NONE		
DE	4431112	C1	11/04/1996	NONE		
EP	1118434	A2	25/07/2001	DE	10002224 C	06/09/2001
US	20030173773	A1	18/09/2003	EP	1309427 A	14/05/2003
				JP	2004505792 T	26/02/2004
				NO	20030721 A	10/04/2003
				CZ	20030508 A	15/09/2004
				DE	10040606 A,C	21/03/2002
				WO	0214024 A	21/02/2002